

```
SCAN_TEST =  
    pattern = 0;  
    apply "grp1 load" 0 =  
        chain "chain 0" =  
"11111101011100001111100011100110110101000001010010\  
10001100000111000110100001101001110010001010011110\  
11011100011000010001100011110010001001010100000011\  
10101010010011001011011001011001100100000110010010\  
01110100000000111101111011001100111010111011010010\  
00100111111001010110100001001100000011000011101101\  
1010111011011010001101100111001000110100011011100\  
1010111100100000001110110010000110011000011111000\  
0001001000101011001110111000111111111100111100111\  
01011000111001111101000110001111011101110011100111\  
0010001101010110010101011100010101010111010011000\  
0011011111011101110111001110100010010001000011111\  
111011000100111011011100111011111101101100110011\  
111101110001100001011110000100001110011111101111\  
0101000010000001000110101010111101001110110110100\  
01111011111011111111101001101011001110001100010100\  
1101111011110010000100001011111111110000010110011\  
10010011001110011110101000000110100101001100011010\  
1110000010101101011010100101101111111010011110001\  
00011010011111101100010100110110101011010100100110\  
10111110101011100010000100111000011000011000010111\  
01101101100000110011010011000011011000001011110110\  
11010011011110000110001001110001110110101001000110\  
110000011011111111101111011010010001101010000011\  
1011011001000101100001100010011110101011111011001\  
11110001010001000110001110011101011100001000100000\  
10110110111010010011001001110110010010100010110111\  
10011100101100110110010011000001010110101011110100\  
01010000101101101100100101011000010011011100010110\  
00111110001010111110000000100101000011011000001100\  
0001110111001000011100100000101100011100011100001"
```

Fig. 1a

```

chain "chain 1" =
"1011110010101010001111100111000110110011011001111\
01110011101001100111110110000111010101010111110110\
00111010001000110110101011010101010010010000100101\
01001010100001101001100100110110000010011000001010\
0101001110000000010101011011000011111010001010001\
01011000101011110011101100100110011110100011011000\
00111111100000011101100000001110011111011001100110\
11011100000000001000101011100001111110001101000110\
11011001000000011000111010001011101110011010101111\
000100010101101100100111111011001000001111110000\
11100100011101110011011001011011000110111011001100\
00110001100010110111101001011101011100001011010010\
00011011010100111101001001011010100111011000110101\
01010000001100110100000011111100100101000001100011\
00000111010111011000010100011100011001110100010101\
0100001000000000011011110001001001100101000000111\
0101000111010100000100010000011000011000001010101\
1010001101101111000000110000011011001001110111110\
0100100010110100010111011011110100000011010000010\
1000110111110010000111010110110101101000011101110\
10110000101000110100111101100100100011110100011111\
0010101111100000011110111011101010001101000100011\
0001001100111011010000110111000010100111011110110\
110000011001011101101010101010011110101101000001111\
0100111011000111111100001001110001100110001011000\
1010111010110101010000001010001011111101110111011\
10001110010010100100001101001101100011001011110101\
01000010000000111101000111101100010010000000101001\
1111110100110001011011110101000001010001110000001\
1100101000110110010010110110110001101111110011010\
0111110001111111000001001100011011101100000";

```

FIG. 1b

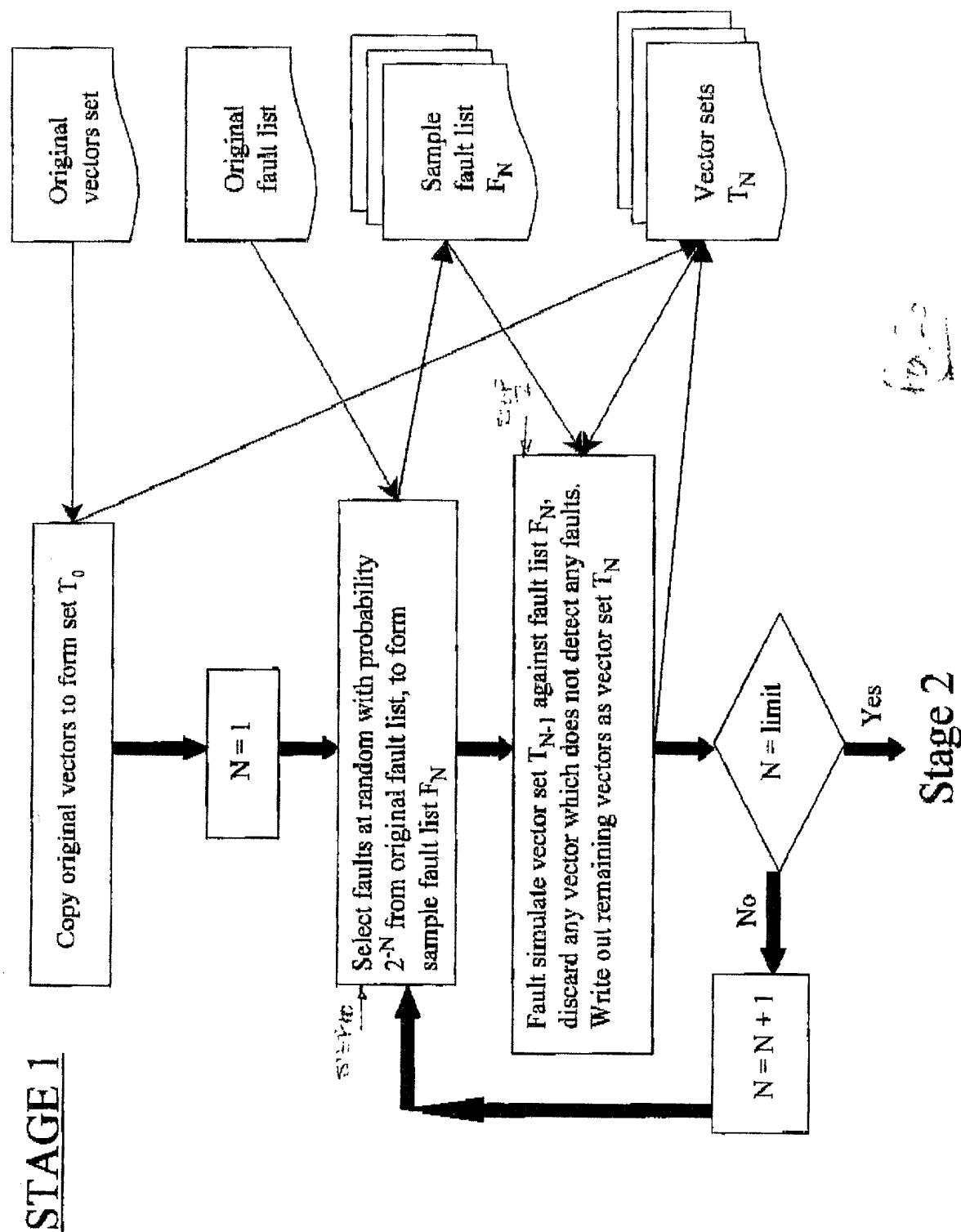


Fig 2a

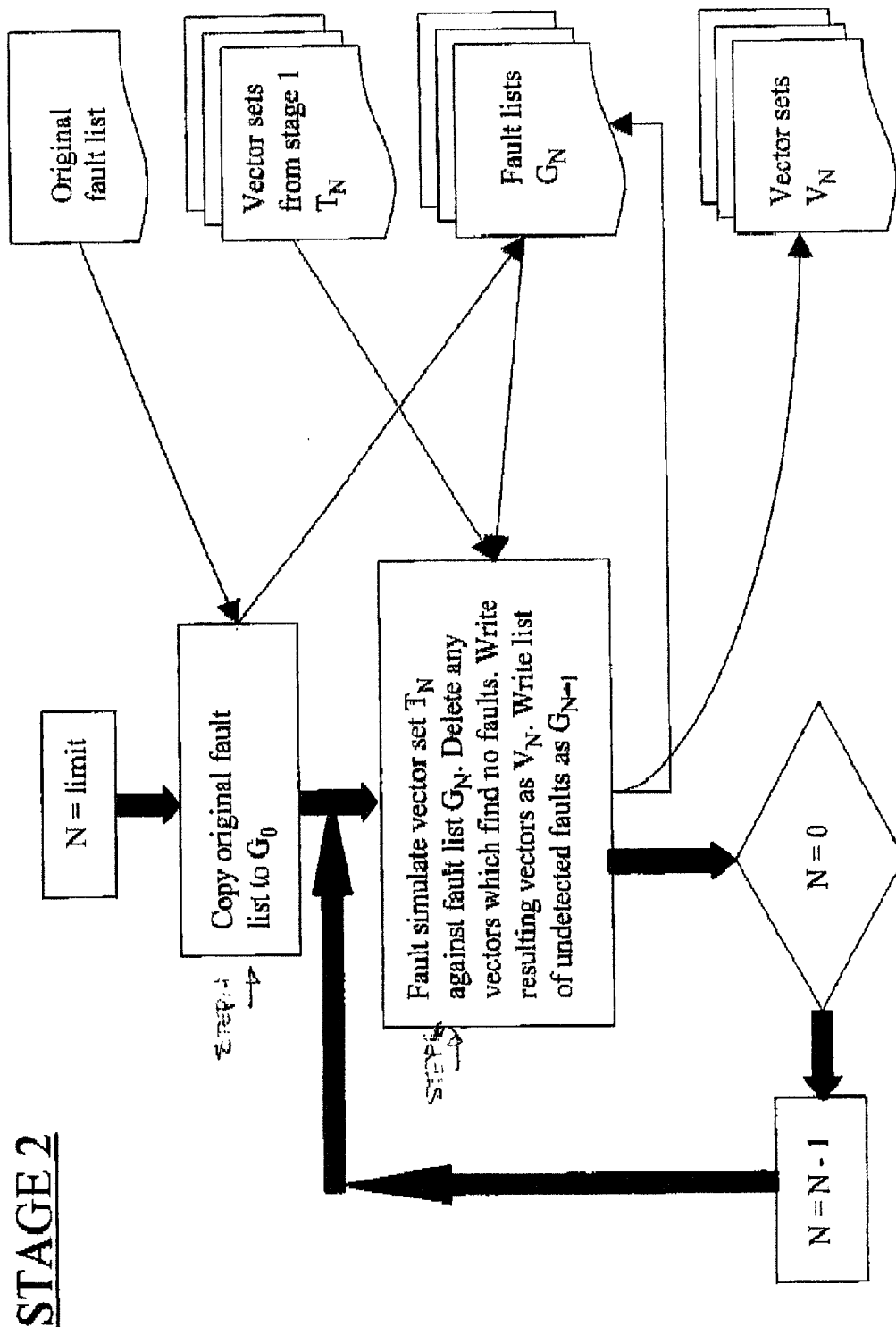


Fig 2 b

### STAGE 3

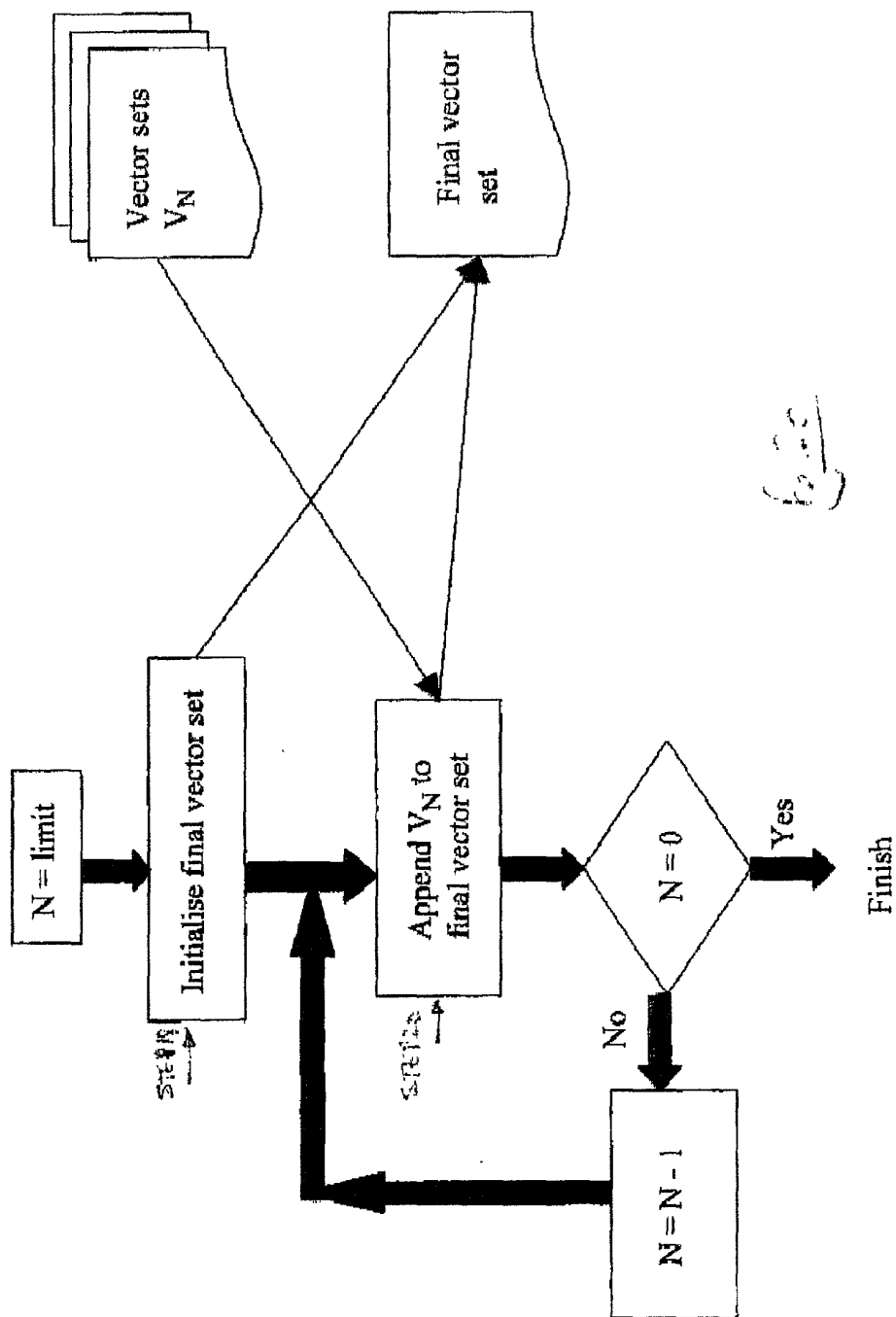


Fig 2:

## Key to flow diagrams

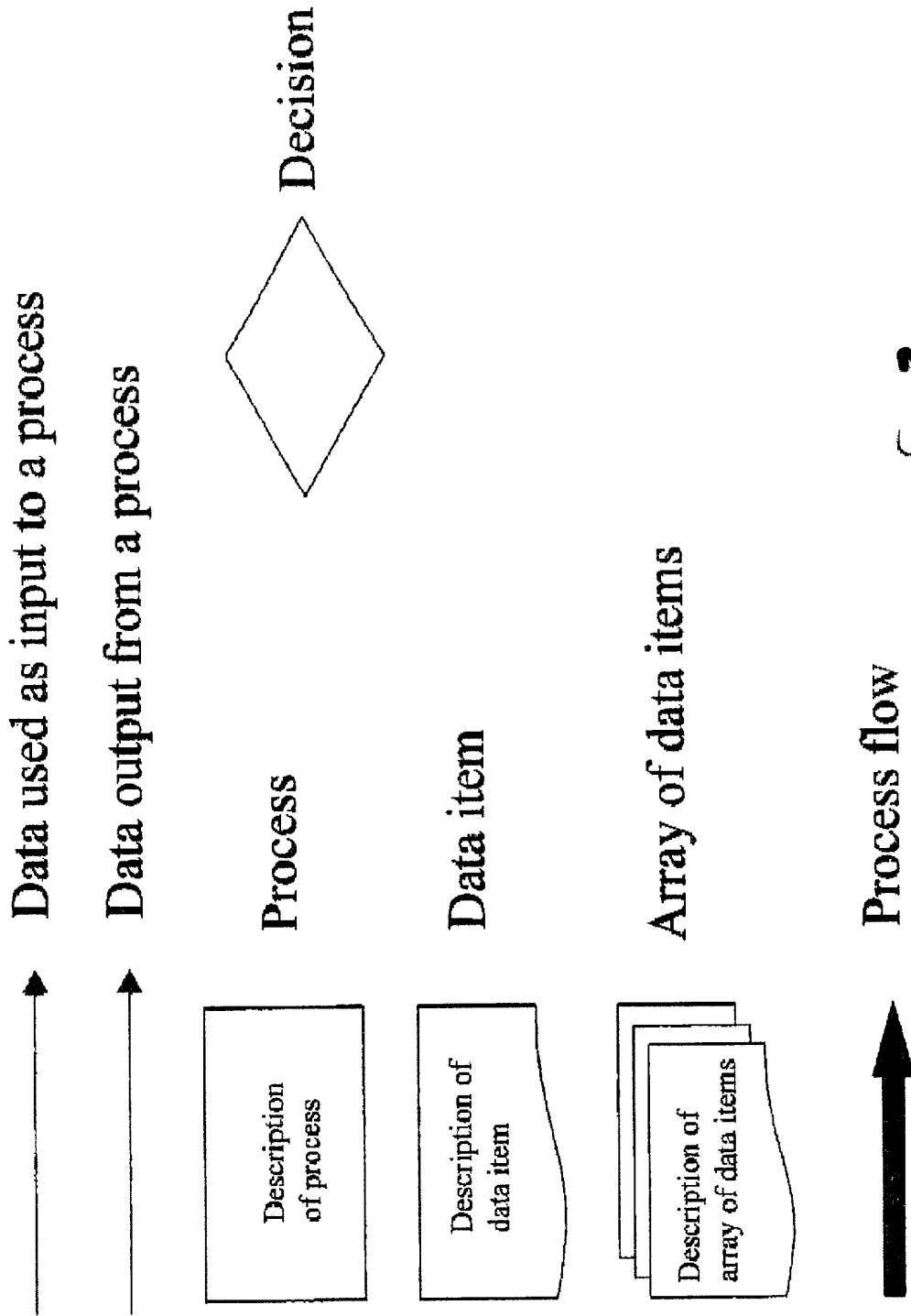
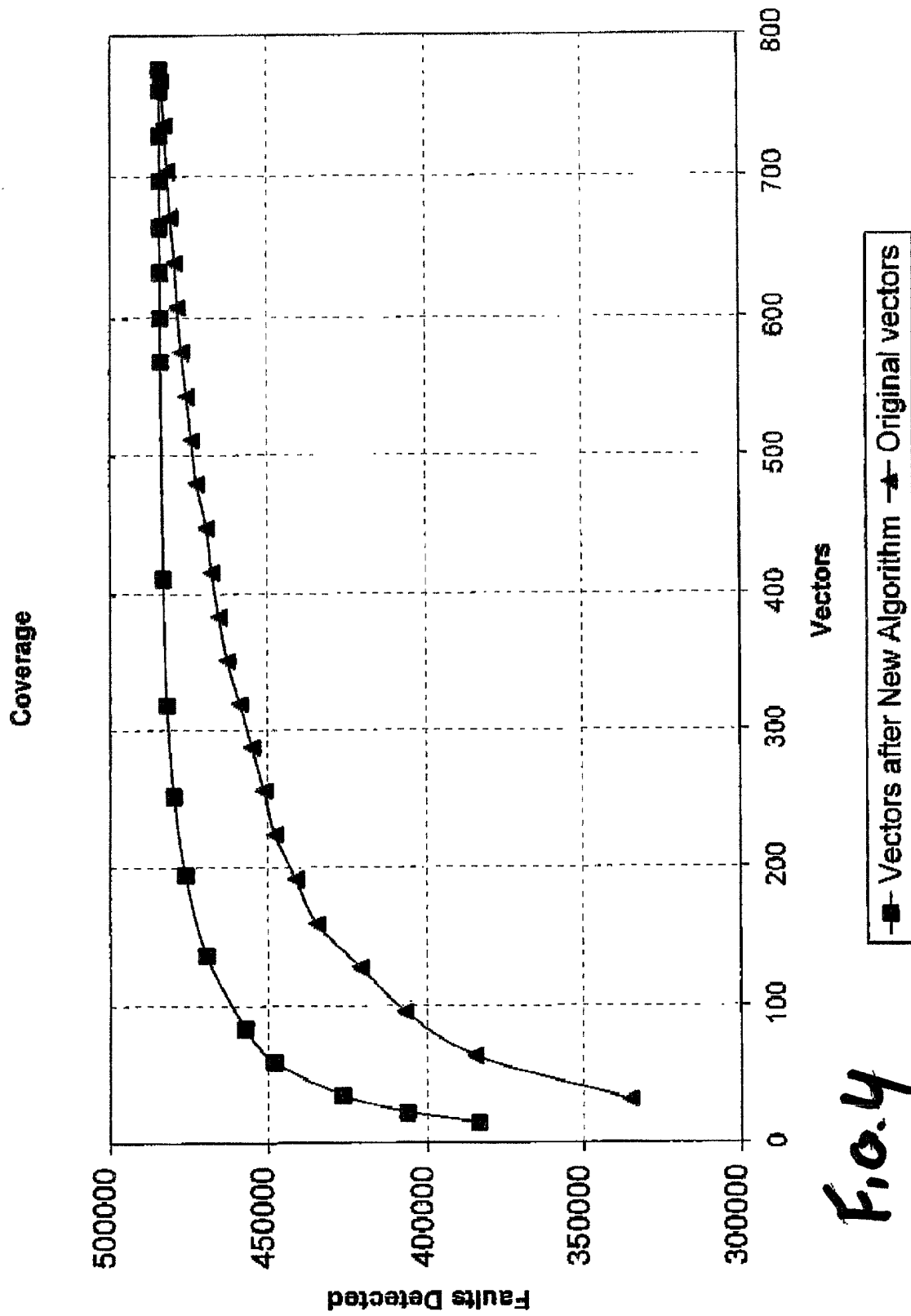


Fig 3



F.O.4